

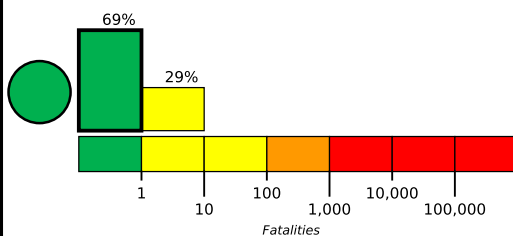
## M 4.7, 16km SSE of Tres Pinos, CA

Origin Time: 2019-10-15 19:42:30 UTC (Tue 12:42:30 local)

Location: 36.6493° N 121.2740° W Depth: 9.7 km

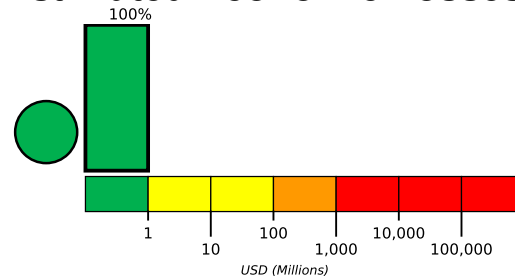
Created: 6 hours, 1 minute after earthquake

### Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

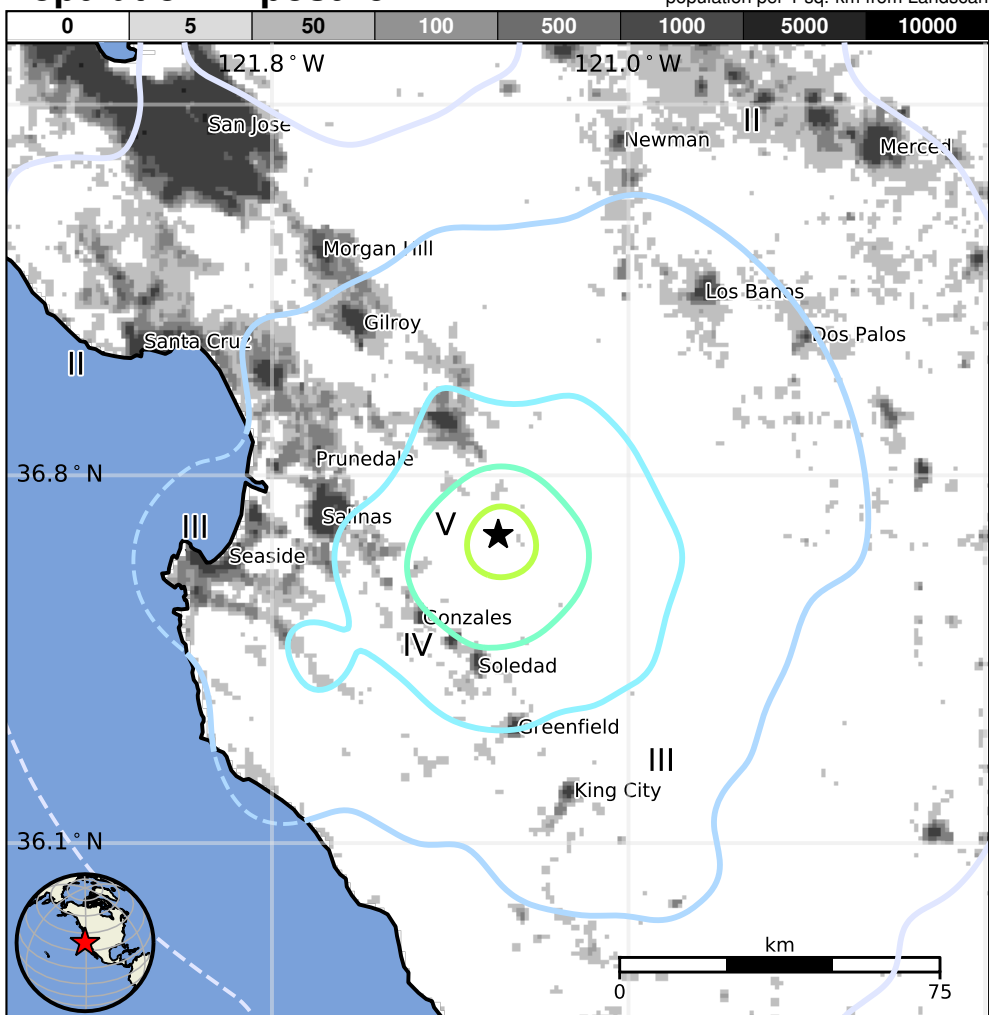


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	726k*	2,631k	149k	5k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	399	5.6	VI(1,267k)	1
2003-12-22	115	6.6	VI(8k)	2
1971-02-09	361	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Gonzales	8k
IV	Soledad	26k
IV	Chualar	1k
IV	Ridgemark	3k
IV	Greenfield	16k
IV	Hollister	35k
III	Salinas	150k
II	San Jose	946k
II	Merced	79k
II	Santa Clara	116k
II	Sunnyvale	140k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/nc73292360#pager>

bold cities appear on map.

(k = x1000)

Event ID: nc73292360